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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/769,834	02/02/2004	Nikolai M. Krivitski	86017.000038	9076
23387 7590 08/19/2008 Stephen B. Salai, Esq.			EXAMINER	
Harter, Secrest & Emery LLP			WINAKUR, ERIC FRANK	
1600 Bausch & Rochester, NY			ART UNIT	PAPER NUMBER
			3768	
			MAIL DATE	DELIVERY MODE
			08/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/769,834 KRIVITSKI ET AL. Office Action Summary Examiner Art Unit

		Eric F. Winakur	3768	
	The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence ac	ldress
WHIC - Exte after	OR KEPIY ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA assons of time may be available under the provisions of 37 CFR 1.3 SIX (6) MONTHS from the mailing date of this communication. Jo period for reply is specified above, the maximum statutory period or	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin	N. nely filed	,
- Failu Any	period for reply is specialled above, the maximum stationy period were to reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	cause the application to become ABANDONE	D (35 U.S.C. § 133).	ommunication.
Status				
2a) <u></u> □	Responsive to communication(s) filed on	action is non-final. ce except for formal matters, pro		e merits is
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or			
Applicat	ion Papers			
10)🛛	The specification is objected to by the Examiner The drawing(s) filed on <u>02 February 2004</u> isslare Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examiner.	: a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. Sec on is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	FR 1.121(d).
Priority (under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents	have been received.		
* 5	Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of the second	ity documents have been receive (PCT Rule 17.2(a)).	ed in this National	Stage
Attachmen	nt(s)	4) Interview Summary	(PTO-413)	

Notice of Draftsperson's Patient Drawing Review (PTO-948)
 Notice of Draftsperson's Patient Drawing Review (PTO-948)
 Notice of Draftsperson's Patient Drawing Review (PTO-948)

Paper No(s)/Mail Date 5/7/04; 8/14/08.

Paper No(s)/Mail Date. ______5 6) Other: ___

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DETAILED ACTION

Claim Objections

1. Claims 1 - 11 are objected to because of the following informalities: With regard to claim 1, it appears that the phrase "blood passing" (line 8) should refer to "diluted blood passing" and that the limitation of step (d) should set forth that the determining a calibration coefficient of the blood property sensor is "based on the determined property" to properly refer to the result of the previous step. With regard to claim 8, it appears that the phrase "the blood" (line 8) should refer to "the diluted blood". With regard to claim 9, it is somewhat unclear as written; the claim has been interpreted to mean "wherein introducing the indicator bolus is effective to change an ultrasound velocity in the blood" and Applicant is requested to amend the claim with similar language, if such an interpretation was correct or to make other amendments, if necessary, to clarify the claim's meaning. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear how performing the step of changing an ultrafiltration rate could introduce a substance into the system; further, the relationship between the step of claim 3 and step (b) of claim 1 is unclear.

Claim Rejections - 35 USC § 102

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7.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

se or on sale in this country, more than one year prior to the date of application for patent in the tates.

5. Claims 8 - 18 are rejected under 35 U.S.C. 102(b) as being anticipated by

Krivitski, Krivitski teaches a measurement arrangement (Figure 11: column 8, line 49 -

column 9, line 3) suitable for measuring from tubing of a hemodialysis arrangement and

gives details of various sensors (Figures 12 - 15; column 9, lines 31 - 61) that may be

used in such an arrangement. Krivitski further teaches details related to calibration of

the sensing arrangement (column 11, lines 10 - 36).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 - 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Krivitski. Krivitski, as detailed above, teach details of a measurement arrangement and

calibration thereof. When describing the calibration, Krivitski give an example of

calibration by injection in arterial inlet ports (column 11, lines 15 - 36) and also teach

that similar sensors are located on the venous portion of the arrangement of Figure 11.

but do not particularly teach that the sensors on the venous portion are calibrated in the

same manner. However, without a showing of unexpected results or criticality, it would

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have been within the skill level of the art to implement the calibration routine on the venous side sensors to permit calibrated measurements to be obtained therefrom as well, since there is a reasonable expectation that the disclosed calibration technique would be suitable for calibrating the sensors regardless of whether they were on arterial or venous side tubing and one would recognize the importance of performing measurements with calibration of all of the sensors.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric F. Winakur whose telephone number is 571/272-4736. The examiner can normally be reached on M-Th, 7:30-5; alternate Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571/272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eric F Winakur/ Primary Examiner, Art Unit 3768